

3. Maintenance of Bevel-Planetary-Gearboxes Typ LP(H) / LPF(H) / MLP(H) / MLPF(H)

3.1 Changing the lubricant

This gearbox is filled with a synthetic lubricant.

- # N.B. Do not mix mineral and/or synthetic grease/oil grades. The gearbox could be damaged if this is done.

3.2 Oil change interval

The first oil change must be carried out after approx. 1.000 operating hours. Further oil changes are necessary after every 10.000 operating hours. Max. 3 years. It is necessary to change the oil, please work with point 3.3.

3.3 Procedure

- # Allow gearbox to warm up
- # Secure drive and machine from unintentional movement or switching on
- # Open drain plug. allow lubricant to drain out through drain hole
- # Close drain plug
- # Remove vent and fill with recommended oil grade to the oil level mark or the centre of the inspection glass
- # Replace vent.

The tables below specify the recommended oil grades and quantities.

3.4 Recommended oil grades

Mobil	Klüber	Optimol	Shell
Mobil SHC 629	Klübersynth GEM 4-150 N	Optigear Synthetic A 150	Omala HD 150

or equivalent oil from other manufacturers.

3.5 Required oil quantities

Gearbox size	04	8	16	32	64
Ratio	10 - 42	10 - 42	10 - 42	10 - 42	10 - 42
Oil qty. [Liter]	1,5	2	3,5	6	10

Gearbox size	04	8	16	32	64	128	256
Ratio	60 - 210	60 - 210	60 - 210	60 - 210	60 - 210	60 - 210	60 - 210
Oil qty. [Liter]	0,7	1	2,5	4	7	10	30

N.B. The volumes stated are approximate values.

The inspection glass or oil dipstick is definitive for the precise oil volume.